





LIBRARY
1977
GENSUSOF
GONSTRUCTION
INDUSTRIES

CC77-I-18(P) Issued April 1979

**Industry Series** 

Preliminary Report

## Roofing and Sheet Metal Work Special Trade Contractors SIC 1761

During 1977, the establishments with payroll in this industry had business receipts of \$6.3 billion. Of this amount, \$6.2 billion were receipts for construction work, an increase of 58 percent compared with 1972. Their payments for construction work subcontracted to others amounted to \$262.1 million leaving net construction receipts of about \$5.9 billion. Total average employment in the industry showed an increase of 9 percent from 1972 to 172.1 thousand employees. Payroll for 1977 amounted to \$2.0 billion. Value added at \$3.4 billion in 1977 was 46 percent more than in 1972.

The Roofing and Sheet Metal Work Special Trade Contractors industry includes establishments primarily engaged in the installation of siding and roofing (including roof spraying, painting, or coating). This industry also includes contractors engaged in sheet metal work, except work in connection with plumbing, heating, or air conditioning. It includes establishments engaged in the installation of downspouts and gutters, metal skylights, and metal ceilings. Coppersmithing and tinsmithing in connection with construction work are classified in this industry. For a more detailed description, see the 1972 SIC Manual.<sup>1</sup>

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1977 Census of Construction Industries is the sixth census of construction establishments in the United States. As in previous years, it was conducted jointly with the censuses of mineral industries, manufactures, retail trade, wholesale trade, and service industries under authority of title 13 of the United States Code. Although the first construction census was conducted covering 1929, only the data from the censuses of

1967 and 1972 are comparable with the 1977 data.

The 1977 estimates for establishments with payroll in all of the construction industries are based on reports from a probability sample of approximately 181,000 establishments selected from about 536,000 construction establishments with payroll. The sample included all construction establishments with a payroll equivalent of 15 or more full-time employees and a sample of those with fewer employees. There were two exceptions: In SIC 1521, sampling was employed in establishments with less than 20 employees because of the large number of establishments in that industry; in SIC 1795, all known establishments were included because of the very small number of establishments in that industry. The data obtained from the sample were inflated to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same schedules and procedures. The standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed. As calculated for this report, the standard error partially incorporates the effect of random errors of response, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 95 out of 100 that the difference is less than twice the standard error.

This report does not include figures for separate adminis-

<sup>&</sup>lt;sup>1</sup> Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 4101-0066. Price \$6.75. 1977 Supplement. Stock No. 003-005-00176-0. Price 90 cents.

Table 1. Detailed Statistics for Establishments With Payroll: 1977, 1972, and 1967

(Thousands of dollars. Detailed figures may not add to totals because of rounding. For meaning of abbreviations and symbols, see text)

(Thousands of dollars. Detailed figures may not add to totals because of ro	unding. For meani	ng of abbreviations	and symbols, see	text)		
Item	Roofing and sheet metal work special trade contractors (1761)			Standard error of estimate (percent)		
	1977	1972	1967	1977	1972	1967
Number of establishments	20,575	18,535	15,755	2	2	2
Proprietors and working partners	12,262	11,973	12,148	3	3	3
All employees:	150,589	141,684	120,037	1	1	1
March	174,789	153,366	129,308	1	1	1
August	183,522 178,658	167,800 161,260	142,196 134,618	1	2	1
Average	172,053	158,051	133,147	i	1	1
Construction workers:	125,926	117,207	102,328	1	1	1
May	148,569	130,050	111,581	1	1	1
August	157,715 152,769	143,943 137,610	123,949 116,484	1 1	2 2	1
Average	146,401	134,189	115,083	1	1	1
Other employees:						
March	24,663 26,220	24,477 23,316	17,806 17,727	1	3 2	2
August	25,807	23,857	18,188	1	2	1
November	25,890 25,692	23,650 23,862	18,039 18,257	2	2 2	1
	,					
Payroll, all employees	1,970,221 1,556,686	1,405,756 1,137,273	838,860 684,980	1	1 1	1
Payroll, other employees	413,535	268,483	153,988	1	1	1
First quarter payroll, all employees	395,908	(NA)	(NA)	1	(NA)	(NA)
Employer costs for fringe benefits	407,980 240,301	(NA) (NA)	(NA) (NA)	1 1	(NA) (NA)	(NA) (NA)
Voluntary expenditures	167,679	(NA)	(NA)	1	(NA)	(NA)
All business receipts	6,330,916	3,999,967	2,420,555	1	1	1
Total construction receipts	6,210,624 3,009,599	3,940,243 1,732,057	2,384,266 1,030,621	1 1	1	1
Other business and land receipts	120,292	59,724	36,356	2	5	2
Net construction receipts	5,948,477	3,752,108	2,288,289	1	1	1
Value added	3,423,739	2,347,983	1,414,565	1	2	1
Selected payments	2,907,177	1,651,984	1,005,917	1	2	1
Materials, components, and supplies	2,541,893 262,147	<sup>1</sup> 1,463,849 188,135	<sup>1</sup> 909,615 96,079	1 3	2 4	1 2
Selected power, fuels, and lubricants	103,137	(NA)	(NA)	1	(NA)	(NA)
Electricity Natural gas	12,373 5,666	(NA) (NA)	(NA) (NA)	2 3	(NA) (NA)	(NA) (NA)
Gasoline and diesel fuel	75,208	(NA)	(NA)	1	(NA)	(NA)
Lubricating oils and greases	5,047 4,844	(NA) (NA)	(NA) (NA)	3	(NA) (NA)	(NA) (NA)
Rental payments for machinery, equipment, and structures	49,291	(NA)	(NA)	1	(NA)	(NA)
For machinery and equipment	23,596	14,164	7,557	2	3	3
For structures	25,696	(NA)	(NA)	2	(NA)	(NA)
Selected purchased services	88,434 35,276	( NA ) ( NA )	(NA) (NA)	1 2	(NA)	(NA) (NA)
Repairs to structures and related facilities	6,370	(NA)	(NA)	4	(NA)	(NA)
Repairs to machinery and equipment	46,788	(NA)	(NA)	1	(NA)	(NA)
Capital expenditures	133,062 106,431	68,317 57,388	37,686 31,217	2 2	3	2 2
Structures and related facilities	13,054	8,508	5,558	3	6	5
Machinery and equipment, including automobiles and trucks	93,377 58,614	48,880 (NA)	25,659 (NA)	2 3	( NA )	(NA)
Automobiles and trucks intended primarily for highway use  Used	26,631	10,929	6,469	3	6	Ś
Structures and related facilities	4,575 22,056	4,263 6,666	2,488 3,981	7 4	10 6	8 5
Fixed assets and depreciation:						
Gross book value of depreciable assets at end of year	1,027,643 548,502	488,912 230,586	(NA) (NA)	1 1	5 4	(NA) (NA)
Net value of depreciable assets at end of year	479,142	258,326	(NA)	1	5	(NA)
Depreciation charges during year  Structures, additions, and related facilities:	103,979	52,209	(NA)	1	4	(NA)
Gross book value of depreciable assets at end of year	204,478	117,131 36,743	(NA)	2 3	6 7	(NA) (NA)
Accumulated depreciation at end of year  Net value of depreciable assets at end of year	75,623 128,855	80,388	(NA) (NA)	2	5	(NA)
Depreciation charges during year	11,087	7,889	(NA)	2	8	(NA)
Gross book value of depreciable assets at end of year	823,166 472,879	371,781	(NA)	1 1	5 3	(NA) (NA)
Accumulated depreciation at end of year  Net value of depreciable assets at end of year	350,287	193,843 177,9 <mark>3</mark> 8	(NA) (NA)	1	6	(NA)
Depreciation charges during year	92,892	44,320	(NA)	1	4	(NA)

<sup>&</sup>lt;sup>1</sup>Includes data for power, fuels, and lubricants, now shown separately.

Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1977 and 1972

(Thousands of dollars. Detailed figures may not add to totals because of rounding. For meaning of abbreviations and symbols, see text)

Item	Roofing and sheet metal work special trade contractors (1761)		Standard error of estimate (percent)	
	1977	1972	1977	1972
Construction receipts	6,210,624	3,940,243	1	1
Building construction	5,577,001	3,585,890	1	1
Single-family houses		1,003,767	2	3
Apartment buildings	329,385	282,393	2	3
Other residential buildings	128,822	83,149	2	2
Industrial buildings and warehouses	1,547,364	991,929	1	1
Office and bank buildings	399,932	309,046	1	2
Stores, restaurants, public garages, and automobile service stations	354,645	218,564	2	3
Religious buildings	132,054	81,530	2	4
Educational buildings		363,503	1	2
Hospitals and institutional buildings	313,768	187,472	3	2
Other nonresidential buildings	142,371	64,537	3	5
Nonbuilding construction	87,986	56,843	2	3
Construction work not specified by kind	545,802	297,510	3	4

Note: See text for explanation of duplication.

trative offices, warehouses, garages, or other auxiliary units which service construction establishments of the same company. Data for separate central administrative offices and auxiliaries are collected in the enterprise statistics survey, a part of the economic censuses.

This report is one in a series presenting preliminary data collected in the 1977 Census of Construction Industries. The universe for this census included all establishments classified in the construction industries (SIC's 15, 16, 17, and 6552). This report will be superseded by a more detailed final report. In addition to data for establishments with payroll presented here, the final Industry Summary report and the reports in the Geographic Area Series will present limited data for construction establishments with no payroll during 1977.

The totals of construction receipts reported by all construction establishments in each of the several industry, State, or other groupings in this census contain varying amounts of duplication, since the construction work (and the receipts) of one firm may be subcontracted out to other construction firms and, therefore, will be included in the subcontractor's receipts. To avoid this duplication, a "net construction receipts" figure has been derived by subtracting the payments made for construction work subcontracted to others from the construction receipts.

Usually, "value added" is the best measure for comparing the

relative economic importance of industries or areas. It eliminates the duplication in receipts because of subcontracting. It also eliminates from the output measure the cost of materials, which differs in relative importance among areas and industries. For this census, "value added" is equal to all business receipts less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for industries for which land receipts are significant, "value added" is equal to all business receipts less land receipts, payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels.

## The symbols in the tables mean:

- Represents zero.
- D Withheld to avoid disclosing figures for individual companies; figures are included in higher level totals.
- S Withheld because estimates did not meet publication standards on the basis of either the associated standard error or a consistency review.
- Z Standard error of estimate is greater than zero but less than 1 percent.
- a Sampling error is greater than 40 percent.
- NA Not available; data were not collected.

U.S. Department of Commerce BUREAU OF THE CENSUS Washington, D.C. 20233

Official Business

Posta 5 0673 01039530 2
U.S. Department of Commerce COM-202

